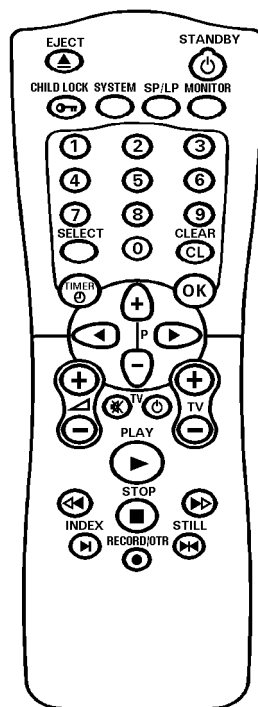




OPERATING INSTRUCTIONS IN BRIEF

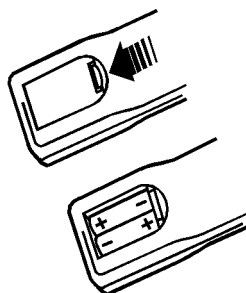
The remote control



- EJECT ▲** Eject
- STANDBY ⏻** Standby
- CHILD LOCK 🔒** Child lock
- SYSTEM** Special function
- SP/LP** SP/LP selection
- MONITOR** TV monitor function
- 0-9** Digit buttons 0-9
- SELECT** Function selector
- CLEAR (CL)** Reset, clear
- TIMER ⌚** 'VIDEOPlus' / 'TIMER' programming
- OK** Confirm button
- P +** Up/Plus, programme number
- ◀** Menu left
- ▶** Menu right
- P -** Down/Minus, programme number
- PLAY ▶** Playback
- ◀◀** Rewind/Reverse scanning
- STOP ■** Pause/Stop, Tuner-mode
- ▶▶** Forward wind/ Forward scanning
- INDEX ▶|** Index search
- RECORD/OTR ●** Record
- STILL ▶◀** Still picture

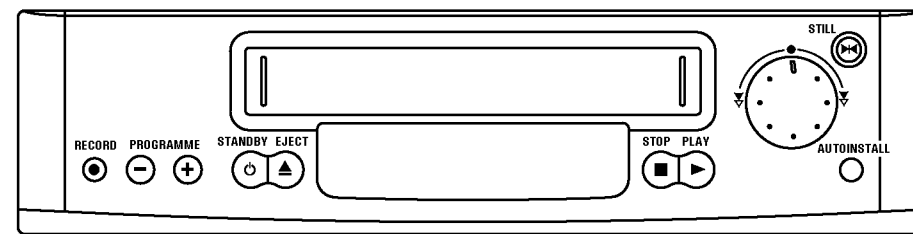
Additional TV functions:

- ◀+ / ▶+** TV volume +
- ◀- / ▶-** TV volume -
- TV 🔊** TV sound off
- TV ⏻** Switch off TV
- TV +** Programme number +
- TV -** Programme number -



Front of the video recorder

- RECORD ●** Record
- PROGRAMME -** Down/Minus, number
- PROGRAMME +** Up/Plus, number
- STANDBY ⏻** Standby
- EJECT ▲** Cassette eject
- STOP ■** Pause/Stop
- PLAY ▶** Playback
- STILL ▶◀** Still picture
- ◀+ / ▶+** Rotary control for Rewind/Reverse scanning or Forward wind/ Forward scanning
- AUTOINSTALL** Installation button





Programming with 'VIDEOPlus+'

All the information required for a programming is encoded in the VIDEOPlus+ code.

- 1 Switch on the TV set.
- 2 Press the **TIMER** button on the remote control.
- 3 With the digit buttons **[0-9]**, enter the VIDEOPlus+ code (up to 9 digits) printed in your TV guide next to the start time of a TV programme.
If you make a mistake, clear with the **CLEAR (CL)** button.
- 4 If you want to programme at daily or weekly intervals, press the **SELECT** button until 'D-DAILY' (daily intervals) or 'W-WEEKLY' (weekly intervals) appears in the display. The 'daily intervals' function can only be used for recordings to be made from Mondays to Fridays inclusive.
- 5 Confirm the entries with the **OK** button. The resultant data appears on the TV screen.

Note: If you use VIDEOPlus+ for the first time for this TV channel, the line 'SELECT PROG' appears when you confirm the VIDEOPlus+ code. Instead of 'E2', select the programme number for this particular TV channel, using the digit buttons **[0-9]** and confirm with the **OK** button.

* Switch 'VPS' or 'PDC' (V/P) on or off with the **SELECT** button.

* If you wish to set a later end time for a recording, press the **P+** button at step 5. Each time you press the **P+** button you will add 15 minutes to the end time.

* If e.g.: '20:00' flashes in the display, please set the clock.

- 6 Finally, press the **OK** button. Programming is now complete.
The data has been stored in a TIMER block.
- 7 Make sure that a cassette without erase protection has been loaded. Switch to standby with the **STANDBY** button.
A programmed recording will only function when the video recorder is **switched to standby** with the **STANDBY** button.

How to programme a recording manually

- 1 Switch on the TV set. Press the **TIMER** button **twice**.
- 2 Select a free TIMER block, using the **P+** or the **P-** button. Press the **TIMER** button.

DATE	PROG	START	V/P	END
01	01	20:00		21:30

NEXT	→TIMER	CLEAR	→CL	
-/+	0-9	D/W→SELECT	OK	

- 3 With the **TIMER** the **▶** or the **◀** button you can select between the entries 'DATE' (date), 'PROG' (programme number), 'START' (start time) and 'END' (end time).
You can enter or adjust data, using the **P+** or the **P-** button or the digit buttons **[0-9]**. Confirm each entry with the **TIMER** button.
You can switch 'VPS/PDC' (V/P) on and off at step 'START' with the **SELECT** button.
You can select between 'D' (daily intervals) or 'W' (weekly intervals) at step 'DATE' with the **SELECT** button.
- 4 Finally, press the **OK** button. Programming is now complete.
- 5 Make sure that a cassette without erase protection has been loaded. Switch to standby with the **STANDBY** button.
A programmed recording will only function when the video recorder is **switched to standby** with the **STANDBY** button.

Note:

* **Clear a TIMER-block:** After step 1, select the TIMER block you want to clear with the **P+** or the **P-** button. Press the **CLEAR (CL)** button.

* If e.g.: '20:00' flashes in the display, the clock must be set.

OPERATING INSTRUCTIONS PHILIPS VR 686

UK

Congratulations on the purchase of one of the most sophisticated and simple-to-use video recorders (VCR) on the market. With this VCR you can record and play VHS-standard cassettes.



Please take the time to read this operating manual before using your video recorder.

Safety instructions and other notes

- **Danger: High voltage!**
Do not remove the top cover as there is a risk of an electrical shock!
- The video recorder does not contain any components that can be repaired by the customer. When the appliance is connected to the power supply there are some components that are constantly operational. To switch off the video recorder completely you must disconnect it from the power supply.
- Note that this power pack is designed for a power supply of 220-240V/50Hz.
- Ensure that air can circulate freely through the ventilation slots on the video recorder.
- Ensure that no objects or liquids enter the video recorder. If liquid is spilt into it, disconnect the video recorder immediately from the power supply and call the After-sales Service for advice.
- The video recorder should not be used immediately after transportation from a cold to a hot area or vice versa, or in conditions of extreme humidity.
After unpacking the video recorder, it should be allowed to acclimatize for at least three hours before installation.
- These operating instructions have been printed on nonpolluting paper.
- Deposit old batteries at the relevant collection points.
- Please make use of the facilities available in your country for disposing of the packaging of the video recorder in a way that helps to protect the environment.
- This electronic equipment contains many materials that can be recycled. Please inquire about the possibilities for recycling your old set.
- VIDEOPlus+ and PlusCode are trademarks of Gemstar Development Corporation. The VIDEOPlus+ system is manufactured under licence from Gemstar Development Corporation.

VIDEO *Plus+*

Contents	Page
1. INSTALLATION	2
Connecting VCR with scart cable	2
Connecting VCR without scart cable	3
Adjusting the modulator frequency	3
Automatic adjustment of modulator frequency	3
Switching off the modulator	3
Important notes for operation	3
Saving energy	4
Connecting additional equipment	4
Emergency interrupt	4
User guide	4
Autoinstall	5
Setting the clock	5
FOLLOW TV	6
Manual Channel Number Allocation	6
Monitor function	6
Allocating a decoder	7
2. PLAYBACK FUNCTIONS	8
Picture scanning	8
Instant View	8
NTSC-Playback	8
Still picture/Slow motion	8
Tape position/Index search	9
Continuous playback	9
Eliminating picture interference	9
Tracking	9
3. RECORDING FUNCTIONS	10
Long play function	10
Some general notes for recording	10
Recording from external sources	10
OTR - Recording	10
Stereo reception	10
Auto-assembling	10
Direct Record	11
PDC / VPS	11
Programming with 'VIDEOPlus+'	12
Programming recordings manually	12
Clear a TIMER block	12
Important programming notes	13
4. SPECIAL FEATURES	14
Tuner mode	14
Sound track selection	14
Externally controlled recording	14
Remote control of TV sets	14
Child lock	15
On Screen Display (OSD)	15
Channel number or frequency display	15
Manual channel search	15
Before you call an engineer	16

1. INSTALLATION

Important for the United Kingdom

This apparatus is fitted with an approved moulded 13 Amp plug. To change a fuse in this type of plug proceed as follows:

- 1 Remove fuse cover and fuse.
- 2 Fix new fuse which should be a BS1362 3A, A.S.T.A. or BSI approved type.
- 3 Refit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place.

If the mains plug contains a fuse, this should have a value of 3A. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5A.


Note: * The severed plug must be destroyed to avoid a possible shock hazard should it be inserted into a 13A socket elsewhere.

How to connect a plug:

The wires in the mains lead are coloured in accordance with the following code:

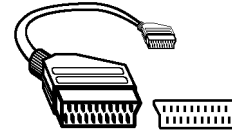
BLUE - 'NEUTRAL' ('N')

BROWN - 'LIVE' ('L')

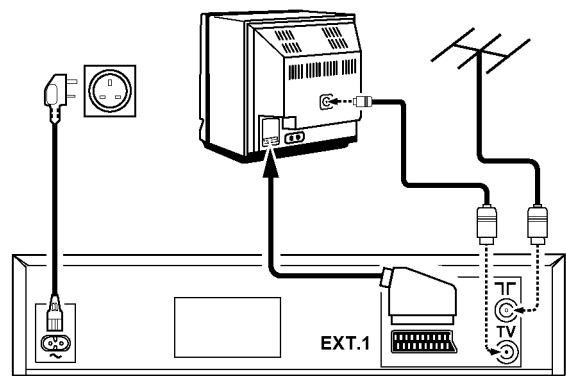
- 1 The BLUE wire must be connected to the terminal which is marked with the letter 'N' or coloured BLACK.
- 2 The BROWN wire must be connected to the terminal which is marked with the letter 'L' or coloured RED.
- 3 Do not connect either wires to the earth terminal in the plug which is marked with the letter 'E' or by the safety earth symbol  or coloured green or green-and-yellow.





Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead - not simply over the two wires.

Connecting VCR with scart cable

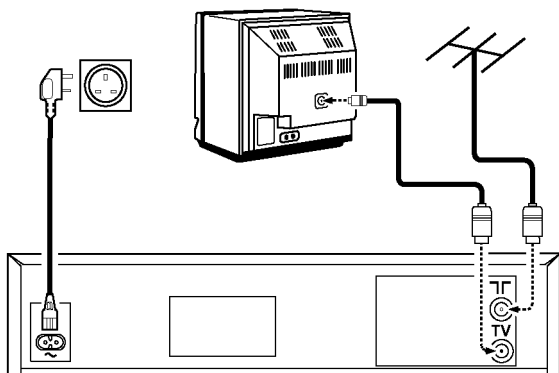





If your television **does not have a scart (AV-Euro) socket**, please **do not read further here**, but turn to the next paragraph 'Connecting VCR without scart cable'.

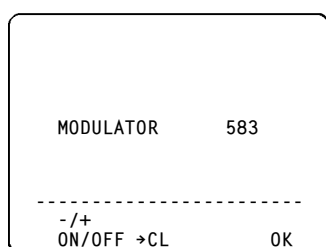



- 1 Remove the aerial cable plug from your TV set and insert it into the  socket at the back of the video recorder.
- 2 Plug one end of the aerial cable provided into the  socket on the video recorder and the other end into the aerial input socket on your TV set.
- 3 Insert the plug of a scart cable into the scart socket  at the back of your video recorder. Connect the other plug to the TV set.
- 4 Insert the female plug of the mains cable into the mains socket  at the back of the video recorder.
- 5 Plug the other end of the mains cable into the wall socket.

Connecting VCR without scart cable




- 1 Remove the aerial cable plug from your TV set and insert it into the  socket at the back of the video recorder.
- 2 Plug one end of the aerial cable provided into the  socket on the video recorder and the other end into the aerial input socket on your TV set.
- 3 Insert the female plug of the mains cable into the mains socket  at the back of the video recorder.
- 4 Plug the other end of the mains cable into the wall socket.
- 5 Switch on your TV set and select the programme number that you have chosen for video playback (see operating manual for your TV set).
- 6 Ensure that **no** cassette has been loaded. With the video recorder **switched to standby**, hold the **SYSTEM** button for a few seconds until a modulator frequency e.g.: 'M583' (583MHz or UHF-channel 35) appears in the display. The video recorder transmits a test picture on this UHF-channel.
- 7 Tune in the TV set in the UHF wave band until this picture appears.



- 8 Switch the video recorder to standby with the **STANDBY**  button.

Note: This modulator frequency (583MHz or UHF-channel 35) might already be being used by another TV station in your reception area, e.g. 'Channel 5'. In this case the picture quality on your TV set will be poor when receiving one or more TV channels.

* **Adjusting the modulator frequency:** If the picture quality only deteriorates when the video recorder is switched on, adjust the modulator frequency. The frequency can be adjusted at step 6 with the **P-** or the **P+** button. Confirm the adjusted frequency with the **OK** button.

* **Automatic adjustment of modulator frequency:** If you press the  button in step 6, the next optimal modulator frequency will be selected automatically. Confirm the frequency displayed with the **OK** button.

* **Switching off the modulator:** If you cannot eliminate picture or sound interference using the above method you can switch off the built-in modulator. You should only do this if you have connected the video recorder to the TV set with a scart cable. 'Connecting VCR without scart cable' is not possible when the modulator is switched off. At step 6, press the **CLEAR (CL)** button for several seconds until 'MOFF' (modulator switched off) appears in the display. You can switch back again in the same way.

Important notes for operation

- Many televisions **automatically** switch to programme number 'EXT' (**EXT**ernal) or 'AV' (**A**udio/**V**ideo) when a video cassette is played back. If the television does not switch automatically, select programme number e.g.: 'EXT', '0', or 'AV' on the TV set manually.
- Keep your video recorder connected to the mains at all times to ensure that programmed recordings can be made and that the television functions normally. The power consumption required will only be approximately 6 W (save energy mode).
- The video recorder switches on automatically as soon as you insert a cassette or press the **P+** button.
- If the video recorder is not used for a few minutes, it switches to standby automatically (except in tuner-mode).
- If the video recorder is disconnected from the mains, TV channel information will be stored for about 1 year and clock and Timer information will be stored for about 7 hours.

Saving energy

You can choose between two methods of switching to standby.

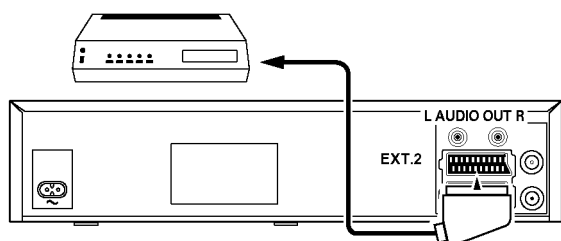
Normal method: Switch to standby using the **[STANDBY ⏻]** button. The clock time remains displayed. If the clock has not been set, '---:--' appears in the display.

To save energy: Press the **[STANDBY ⏻]** button twice. The clock time disappears from the display.

Connecting additional equipment

You can also connect additional equipment to the **[EXT.2]** socket. For instance: satellite receiver, decoder or camcorder.

You can connect a HIFI-stereo set to the sockets **[AUDIO OUT L]** (left channel) and **[AUDIO OUT R]** (right channel).



Emergency interrupt

Both the video recorder and the remote control have an 'Emergency interrupt' button. You can use the **[STANDBY ⏻]** button to interrupt any function.

Whenever you have operating problems you can simply interrupt the function and start again.

You can practise operating your set without any worries. No matter which buttons you press, you cannot damage it.

User guide

With OSD (On Screen Display) the corresponding functions appear on the TV screen. The most important button-functions are displayed at the bottom of the screen. For instance:

DATE	PROG	START	V/P	END
01	01	20:00		21:30

NEXT	→TIMER	CLEAR	→CL	
-/+	0-9	D/W*SELECT	OK	

Throughout this instruction manual, use the following buttons for these functions: 'Select', 'Enter'/'Adjust', 'Confirm'.

Select: Use the **[P-]** or the **[P+]** button.

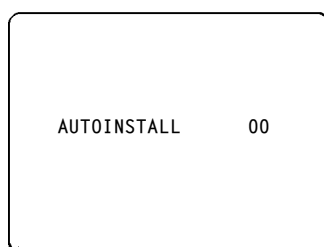
Enter/Adjust: Use the **[P-]** or the **[P+]** button, or the **[0-9]** buttons.

Confirm: Use the **[OK]** button.

Autoinstall

The video recorder will search for all TV channels. It stores TV channels found in the following sequence: BBC 1, BBC 2, ITV, CH 4, CH 5, SKY, others.

- 1 Switch on the TV set. Press the **AUTOINSTALL** button on the video recorder. If TV channels have already been stored, select the line 'AUTOINSTALL', using the **P+** or **P-** button.
- 2 Confirm with the **OK** button.
'AUTOINSTALL' starts. On the TV screen appears:



Wait until all TV channels have been found. This can take several minutes.

- 3 When 'AUTOINSTALL' is complete, 'READY' will appear in the display. Date and clock information have been set.

How to search for a TV channel manually, you can read in chapter 4 'SPECIAL FEATURES', 'Manual channel search'.

Note:

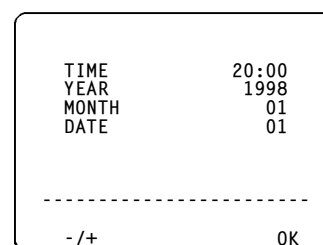
With the **OK** button you can interrupt the automatic channel search. All TV channels found will remain stored.

* If a TV channel transmits a 'TV channel identification' (e.g. 'BBC1'), it appears in the display.

Setting the clock

If the time in the video recorder display is not correct or if '--:--' appears in the display, please set the clock manually.

- 1 Switch on the TV set.
- 2 Press the **AUTOINSTALL** button on the video recorder.
- 3 Confirm the line 'CLOCK' with the **OK** button.
- 4 Adjust 'TIME', 'YEAR', 'MONTH', 'DATE' if required, using the **P+** or **P-** button or the digit buttons **0-9**.



- 5 Confirm each entry with the **OK** button.

Note: If a TV channel which transmits TXT/PDC is stored with programme number 'P 01', time (from TXT) and date (from PDC) will automatically be taken from the TXT/PDC information.

Automatic Channel Allocation FOLLOW TV

With this function the video recorder maintains the same programme sequence as on the TV set. This only functions if the video recorder (socket **EXT.1**) and the TV set are **connected with a scart cable**. Additional equipment connected to socket **EXT.2** must be **switched off**.

- ❶ Switch on the TV set.
- ❷ Select programme number '1' on the TV set .
- ❸ Press the **AUTOINSTALL** button on your video recorder.
- ❹ Select 'F TV' (FOLLOW TV) in the display, or 'FOLLOW TV' on the TV screen, using the **P+** or **P-** button.
Confirm with the **OK** button.
If the video recorder recognizes that the TV set has been connected with a scart cable, 'TV01' appears in the display.
- ❺ Confirm with the **OK** button on the video recorder-remote control. The video recorder compares the TV channels on the TV set and the video recorder.
If the video recorder found the same TV channel as the TV set, then it stores it at 'P 01'.
- ❻ Wait until e.g.: 'TV02' appears in the display.
- ❼ Select, **on the TV set** , the next programme number, e.g.: '2'.
- ❽ Confirm with the **OK** button on the video recorder-remote control.
- ❾ Repeat steps ❻ to ❽ until all TV channels have been allocated.
To finish, press the **STANDBY** button.

Note: When 'NOTV' (no signal from TV set) appears in the display, the TV channels can not be allocated automatically. Then read further in the next paragraph: 'Manual channel number allocation'.

* If you allocated the wrong TV channel at step ❺ or ❽ you can go back one step with the **CLEAR (CL)** button.

Manual Channel Number Allocation

You can give any desired programme number to the TV channels stored.

- ❶ Switch on the TV set. Press the **AUTOINSTALL** button on the video recorder.
- ❷ Select 'CHANNEL ALLOCATION' with the **P+** or **P-** button.
Confirm with the **OK** button.
- ❸ Use the **P-** or **P+** button to select the TV channel on the TV screen to which you wish to give a programme number (starting with 'P 01').
- ❹ Confirm this allocation with the **OK** button.
If you wish to allocate further programme numbers, repeat step ❸ and step ❹ until you gave a programme number to all the required TV channels.

- ❺ To end, press the **STANDBY** button.

Note: If you want to delete an **unwanted** TV channel, press the **CLEAR (CL)** button at step ❸ .


* **Monitor function:** You can switch to and fro between TV reception and video recorder reception with the **MONITOR** button. This only functions when you used a scart cable to connect the video recorder to your TV set and if your TV set responds to this switch-over.

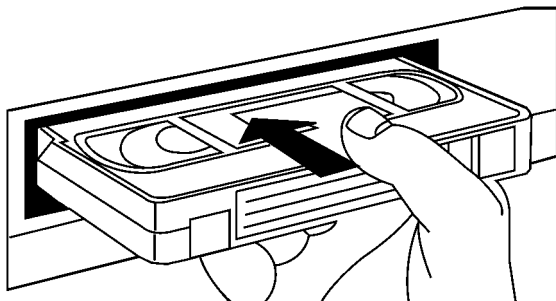
Allocating a decoder









With this function, the connected decoder will automatically be activated for the TV programme required.

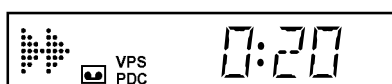
- ➊ On the video recorder, select the TV programme you wish to link with the decoder function, using the **[P+]** or **[P-]** button or the digit buttons **[0-9]**.
- ➋ Press the **[AUTOINSTALL]** button on the video recorder.
- ➌ Select 'MANUAL SEARCH' with the **[P+]** or **[P-]** button.
- ➍ Confirm with the **[OK]** button.
- ➎ Press the **[INDEX▶]** button. In the display appears: 'DEC'
- ➏ Confirm with the **[OK]** button.
- ➐ To end, press the **[OK]** and the **[STANDBY⏻]** button.

2. PLAYBACK FUNCTIONS





- 1 Insert the cassette into the cassette slot.  appears in the display.



- 2 **Playback:** Press the playback button .
- 3 **Picture scanning:** Press the  (reverse) or  (forward) button once or several times. You have a choice of several picture scanning speeds.
- 4 **Interrupt:** Press the  button.
- 5 **Wind and rewind:** Interrupt the playback function with the  button and press the  (rewind) or  (wind) button.
If you want to carry out this function on your video recorder, then turn the outer rotary control  to the left or to the right. In the display appears:








If, during wind/rewind, you want to have a quick access to picture scanning, use the 'Instant View' function.



- 6 **Instant View:** If you hold the  (rewind) or  (wind) button during wind or rewind, you will switch to picture scanning. If you release the button, the video recorder will automatically switch back to rewind or wind again.
- 7 **Eject a cassette:** Interrupt the playback function with the  button and press the  button on the video recorder.

Notes: Some functions switch off automatically after a while (e.g.: pause, still picture, picture scanning). This helps to protect the cassette and prevent unnecessary power consumption.




* The picture quality will deteriorate during picture scanning. The sound is turned off.
* With this video recorder you can playback cassettes that have been recorded on other video recorders in the NTSC standard. This only works for PAL-television sets which are suitable for a picture frequency of 60 Hz.
During NTSC-playback some special features (e.g. still picture) are not possible.

Still picture/Slow motion

- 1 Press the  button. A still picture appears on the screen.
- 2 Each time you press  again the picture will move on one step.
- 3 Hold the  button. The picture will be played in slow motion.
- 4 Press the  button several times. You have a choice of several playback speeds. When you press the  button several times you will return to the still picture. There is no sound during slow motion playback.

Note: If the still picture vibrates vertically, hold the  or the  button at step 1 until the vibration is minimal. This setting will be stored automatically. Please note, however, that interference may still occur with poor quality cassettes.

Single frame picture/ picture search functions

- 1 Switch on the function by pressing the  button on the video recorder. A still picture appears on the screen.
- 2 Each time you press  again the picture will move on one step.
- 3 Using the rotary control , you can select the various picture search speeds.

Tape position/Index search

Tape position: The elapsed playback time, given to the hour and minute, appears in the display.

When you load a cassette, the video recorder must first calculate the playing time. Therefore, '---' appears first and only after the tape has been running for a few seconds the playing time will be shown.

The playback time displayed can be incorrect when using camcorder cassettes or with cassettes made for NTSC-VHS equipment.

Index search: At the beginning of each recording, the video recorder marks the tape with a code mark. You can search for these code marks on the tape. Once the video recorder finds the code mark or a blank space, it will automatically switch to playback.

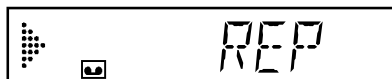
- 1 To select the next or the previous code mark, press the **INDEX▶** button and then press the **▶▶** or the **◀◀** button.

Note: You cannot use the function 'Index search' with recordings made on another video recorder that does not have this code mark function.

Continuous playback

You can continuously repeat the replay of a cassette. When the end of the tape has been reached, it rewinds and begins again.

- 1 Press the **PLAY▶** button.
- 2 Whilst holding down the **MONITOR** button on the remote control, press the **PLAY▶** button on the video recorder. In the display appears:



- 3 If you want to cancel the function, repeat step 2.

Note: No other button will react during continuous playback. After a power failure, playback will automatically start again.

Eliminating picture interference/ Cleaning function

- 1 During playback, hold the **P+** button until 'TRAC'(tracking) appears in the display.
- 2 Hold the **P+** or **P-** button until the playback quality is at its best.
- 3 Wait a few seconds, until 'TRAC' disappears from the display. This setting will remain until you remove the cassette.
- 4 If horizontal lines still appear on the screen, use the Cleaning function:

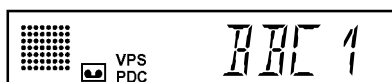


Cleaning function: During playback, hold the **PLAY▶** button until 'HEAD' (video head cleaning) appears in the display. The video heads are being cleaned. The video recorder automatically switches back to playback.

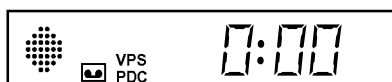
Note: Some hired cassettes may have a poor picture/sound quality. This is not a fault in your video recorder.

3. RECORDING FUNCTIONS

- 1 Insert a cassette into the video recorder or switch the video recorder on with the **[P+]** button.
- 2 Use the **[P-]** or **[P+]** button or the **[0-9]** buttons to select the programme number from which you wish to record, e.g. 'P 01'. In the display appears:



- 3 Press the **[RECORD ●]** button. In the display appears:



- 4 To stop recording, press the **[STOP ■]** button.

Long play function

You can reduce the recording speed by half. This makes it possible to record, for example, 8 hours instead of 4 hours on an 'E240' cassette.

Before recording, with the video recorder switched on, select the 'LP' (=LongPlay) recording speed by pressing the **[SP/LP]** button. 'LP' will appear in the display.

Note: During picture scanning, still picture and slow motion colour playback may be poor.

* You will obtain the best picture quality when recording at standard speed ('SP').

Some general notes for recording

- **Recording from external sources:** Programme numbers 'E1' and 'E2' are provided for recording from external sources (via the **[EXT.1]** or **[EXT.2]** scart socket).
- **OTR - recording:** If you do not want to record to the end of the cassette, press the **[RECORD ●]** button again. The display shows at what time the recording will stop. With each subsequent press of the **[RECORD ●]** button you can add 30 minutes to this time.
You can return to the normal recording status by pressing the **[CLEAR (CL)]** button.
- **Stereo reception:** This video recorder can record stereo transmissions. The playback of HiFi recordings has HiFi quality.
- **Erase protection:** So that you don't accidentally delete an important recording, you can remove the special tab (erase protection) on the narrow side of the cassette with a screwdriver or slide the special tab to the left. Later, if you no longer want the cassette to be erase protected, you can seal the gap again with adhesive tape or slide the special tab to the right.
- **Auto-assembling:** You can use the auto-assembling function to join individual recordings without any major picture disturbance between the recordings. During playback, search for the correct position on the tape and then press the **[STOP ■]** button. **II** will appear in the display. Now you can start recording as usual by pressing the **[RECORD ●]** button.
During Stop ■ or Pause II you can switch between the display for TV channel identification and tape position, using the **[OK]** button.

Direct Record

Do you want to record a television transmission which you are just viewing?

Press the **RECORD** button with the video recorder **switched to standby**. The video recorder takes the channel number which is currently selected on the television and starts recording. For 'Direct Record' to function, it must be switched on and the video recorder and the television must be connected with a scart cable.

- 1 Press the **AUTOINSTALL** button.
- 2 Select 'DIRECT RECORD' with the **P+** or **P-** button and confirm with the **OK** button.
- 3 Select 'ON' with the **P+** button and confirm with the **OK** button.

After the confirmation the video recorder switches to standby automatically.

Note:

- * Not all external equipment is suitable for using the 'Direct Record'-function (e.g. some satellite receivers, decoders).
- * Don't select another programme number on your television set, until 'OK' appears in the display of your video recorder. This can take up to one minute.

How to programme a recording

The video recorder needs the following information for every programmed recording:

- * the date on which the recording is to be made
- * the programme number for the TV programme
- * the start and stop time of the recording
- * 'PDC' or 'VPS' on or off

The video recorder stores all the information mentioned above in a **TIMER** block. You can programme up to 6 **TIMER** blocks, one month in advance.

With '**PDC**' (Programme Delivery Control) or '**VPS**' (Video Programming System), the TV station controls the beginning and the length of the programmed recording. This means that the video recorder switches itself on and off at the **right time** even if a TV programme you have programmed begins earlier or finishes later than expected.

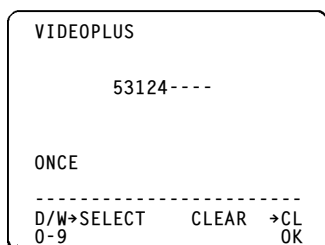
Usually the start time is the **same** as the PDC or VPS time. If, however, a different PDC or VPS time is given, e.g.: '20.15 (PDC or VPS 20.14)', you have to enter '20.14' as the start time **exactly to the minute**.

If you want to enter a time that differs from the PDC or VPS time, you have to switch off 'PDC' or 'VPS'.

Programming with 'VIDEOPlus+'

All the information required for a programming is encoded in the VIDEOPlus+ code.

- 1 Switch on the TV set.
- 2 Press the **TIMER** button on the remote control.
- 3 With the digit buttons **[0-9]**, enter the VIDEOPlus+ code (up to 9 digits) printed in your TV guide next to the start time of a TV programme.
If you make a mistake, clear with the **CLEAR (CL)** button.



- 4 If you want to programme at daily or weekly intervals, press the **SELECT** button until 'D-DAILY' (daily intervals) or 'W-WEEKLY' (weekly intervals) appears on the TV screen. The 'daily intervals' function can only be used for recordings to be made from Mondays to Fridays inclusive.
- 5 Confirm the entries with the **OK** button. The resultant data appears on the TV screen.

Note: If you use VIDEOPlus+ for the first time for this TV channel, the line 'SELECT PROG' appears when you confirm the VIDEOPlus+ code. Instead of 'E2', select the programme number for this particular TV channel, using the digit buttons **[0-9]**. Confirm with the **OK** button.

* Switch 'PDC' or 'VPS' (V/P) on or off with the **SELECT** button.

* If you wish to set a later end time for a recording, press the **P+** button at step 5. Each time you press the **P+** button you will add 15 minutes to the end time.

* If e.g.: '20:00' flashes in the display, please set the clock.

- 6 Finally, press the **OK** button. Programming is now complete.
The data has been stored in a TIMER block.

- 7 Make sure that a cassette without erase protection has been loaded. Switch to standby with the **STANDBY** button.

A programmed recording will only function when the video recorder is **switched to standby** with the **STANDBY** button.

Note:

* VIDEOPlus+ Aerial-code numbers: With this video recorder, VIDEOPlus+ aerial-code numbers will be allocated automatically.

Programming recordings manually

- 1 Switch on the TV set. Press the **TIMER** button **twice**.
- 2 With the **P+** or **P-** button, select a free TIMER block. Press the **TIMER** button.
- 3 With the **TIMER**, the **▶** or the **◀** button you can select between the entries 'DATE' (date), 'PROG' (programme number), 'START' (start time) and 'END' (stop time).
With the **P+** or **P-** button or the digit buttons **[0-9]**, you can enter or adjust data.
You can switch 'VPS/PDC' (V/P) on and off at step 'START' with the **SELECT** button.
You can select between 'D' (daily intervals) or 'W' (weekly intervals) at step 'DATE' with the **SELECT** button.
- 4 Finally, press the **OK** button. Programming is now complete.

- 5 Make sure that a cassette without erase protection has been loaded. Switch to standby with the **STANDBY** button.

Note:

* **Clear a TIMER block:** At step 1 select the TIMER block that you want to clear, using the **P+** or **P-** button. Press the **CLEAR (CL)** button.

If e.g.: '20:00' flashes in the display, the clock must be set.

Important programming notes

- When recordings have been programmed, ☺ appears in the display.
- The programmed recording will always be made at the recording speed (SP/LP) that **at the time** has been selected on the video recorder.
- You cannot operate the video recorder manually while a programmed recording is being made. If you want to interrupt the programmed recording, press the **STANDBY** ☺ button.
- If the video recorder is switched on a few minutes before a programmed recording is due to take place, 'TIMER RECORD' will flash on the TV screen.
- If the end of the cassette is reached during a programmed recording, the video recorder automatically ejects the cassette.
- If you forget to load a cassette, after programming the recording, 'NO CASSETTE' will appear on the TV screen for a few seconds.
- If you insert a cassette with erase protection, after programming the recording, 'PROTECTED CASSETTE' will appear on the TV screen for a few seconds. The cassette will then be ejected.
- When, after pressing the **TIMER** ☺ button 'TIMER FULL' appears on the TV screen, all TIMER blocks have been programmed. Then, with the **P+** or **P-** button, select the TIMER block you want to adjust or clear.
- If 'CODE ERROR' appears on the TV screen, the VIDEOPlus+ code was incorrect or the date was incorrectly entered. Repeat the entry or end with the **STANDBY** ☺ button.
With programming at daily intervals, the first recording must take place within a week.
- If 'DAILY ERROR' appears on the TV screen, the date was incorrectly entered. Programming at daily intervals can only be used for recordings to be made from Mondays to Fridays inclusive.
- Programme numbers 'E1' and 'E2' are provided for programmed recordings from external sources (via the **EXT.1** or **EXT.2** scart socket).

4. SPECIAL FEATURES

Tuner mode

You can also use your video recorder as a TV receiver (tuner).

- 1 Hold the **STOP** button, until **T** appears in the display.
- 2 Select the required programme number with the **P-** or **P+** button or with the **[0-9]** buttons.
- 3 Switch the video recorder to standby by pressing the **STANDBY** button when you no longer want to watch television.

Sound track selection

You can select the required sound track during tuner-mode, stop or playback. This is of particular interest when the audio transmissions are multilingual.

- 1 Press the **SELECT** button. The current setting will appear in the display.
- 2 By pressing the **SELECT** button several times you can select from the four possibilities displayed ('STEREO', 'RIGHT', 'LEFT', 'MONO').

Note: During playback you can select a fifth possibility: the 'MIXED' mode. In this mode you can playback the mono sound of the normal (linear) audio track together with the sound of the stereo audio track. This can be used for playing back a recording dubbed on another video recorder.
* If there is no stereo sound recorded on the cassette, the video recorder automatically switches over to mono sound.

Externally controlled recording

Do you have another device, e.g. a satellite receiver, which can control other equipment by a 'programming' function? You can connect this device to the video recorder with a scart cable, at socket **EXT.2**.

- 1 Insert a cassette. Switch to standby with the **STANDBY** button.
- 2 Hold the **MONITOR** button until 'REC.P' appears in the display.
- 3 If you want to interrupt this function **before** the recording has actually started, hold the **MONITOR** button until 'REC.P' disappears from the video recorder display.
- 4 If you want to interrupt this function **while** a recording is being made, press the **STANDBY** button.

Remote control of TV sets



Your remote control can operate with a number of remote control codes for TV sets of different makes. Using the appropriate **code number** and the **TV** button set, you can activate the following functions:


- TV +** TV volume plus
- TV -** TV volume minus
- TV X** Switch off sound
- TV** Switch off
- TV +** Up/Plus, programme number
- TV -** Down/Minus, programme number

- 1 Hold down the **TV** button and enter the appropriate remote control code with the digit buttons **[0-9]**.
You will find a list of all available remote control codes on the last page of this manual.

Note: If the selected code does not operate with your TV set, or if the TV make is not contained in the list, you can try out the codes one after the other.

Child lock

- 1 With the video recorder switched on, press the **CHILD LOCK** button on the remote control **for a few seconds** until  appears in the video recorder display. Keep the remote control in a safe place.
- 2 When you want to switch off the child lock, press the **CHILD LOCK** button again **for a few seconds**.  disappears from the video recorder display.

Note: If a button is pressed with activated child lock,  flashes in the display for a few seconds.
* Programmed recordings are made despite the child lock and cannot be interrupted.

On Screen Display (OSD)

You can switch the On Screen Display (OSD) on or off.

- 1 Switch on the TV set. Press the **AUTOINSTALL** button on the video recorder.
- 2 With the **P+** or **P-** button, select 'OSD'. Confirm with the **OK** button.
- 3 With the **P+** button, select 'ON' or 'OFF'. Confirm with the **OK** button.

Note: With the **OK** button you can superimpose the actual operating mode on the TV screen.

Channel number or frequency display

You can switch between the display for 'channel number' or 'frequency' for manual channel search.

- 1 Press the **AUTOINSTALL** button.
- 2 With the **P+** or **P-** button, select 'CHANNEL/FREQUENCY'. Confirm with the **OK** button.
- 3 With the **P+** button, select 'CHANNEL' or 'FREQUENCY'. Confirm with the **OK** button.

Manual channel search

In certain cases the 'Automatic channel search' may not be able to find all of the TV channels (e.g. coded TV channels). In that case, use this manual method to set the TV channels.

- 1 Switch on the TV set. Press the **AUTOINSTALL** button on the video recorder.
- 2 With the **P+** or **P-** button, select 'MANUAL SEARCH'. Confirm with the **OK** button.
- 3 Hold the **P+** button until you have found the right TV channel. A changing channel number or frequency will appear on the TV screen.
- 4 Confirm with the **OK** button.
- 5 With the **P+** or **P-** button or the digit buttons **0-9**, select the programme number that you wish to give to this TV channel (e.g.: 'P 01').
- 6 Confirm with the **OK** button.
If you want to allocate more TV channels, repeat steps 3 until all TV channels have been stored.
- 7 To end, press the **STANDBY** button.

Note: Channel number or frequency can also be entered directly at step 3, using the **0-9** buttons.
* To enter a special/hyperband channel, first enter the channel digit '9'. The indication changes from 'CH' to 'CA'. For example, for special channel 'S 30', enter '9 30'.
* **Allocating a decoder:** If you want to allocate a decoder, press the **INDEX** button at step 3 until 'DEC' appears in the display.
* This video recorder can receive HIFI sound transmissions in 'NICAM'. At step 3, you can switch 'NICAM' off or on with the **SELECT** button.

Before you call an engineer

If, contrary to expectation, you experience any difficulty in operating this video recorder, it may be caused by one of the reasons mentioned below. You can also call the **customer service** in your country.

You will find the telephone numbers in the enclosed guarantee leaflet.

The set does not respond to any button being pressed:

- No power supply.
- A programmed recording is currently being made.
- Child lock is active.
- Technical disturbance: disconnect from the mains for 30 seconds, then re-connect. If this does not have any effect, you can:
 1. Disconnect from mains.
 2. Re-connect to mains **whilst holding down** the **STANDBY** button on the video recorder. All stored data will be reset (cleared).

Cassette jammed:

- Don't use force. Pull out the mains plug for a moment.

Remote control does not operate:

- Remote control not pointed toward the video recorder.
- Batteries are exhausted.

No playback from video recorder:

- No recording on the cassette.
- The VCR programme number on the TV set was incorrectly selected or incorrectly set.
- The connecting cable between the TV set and the video recorder has come loose.

Poor playback from video recorder:

- TV set not properly adjusted.
- Cassette badly worn or of poor quality.
- Read the section about 'How to eliminate picture disturbance' in chapter 'PLAYBACK FUNCTIONS'.

No recording possible:

- TV channel not stored or wrongly selected.
- Cassette with erase protection has been loaded.

Programmed recording does not function:

- TIMER not set properly.
- Time/date wrongly programmed.
- A cassette with erase protection has been loaded.
- 'PDC' or 'VPS' switched on but 'PDC/VPS time' wrong. Check aerial.

Picture or sound interference on TV reception e.g. when tuned to 'CH5':

- Turn to Chapter 1 'INSTALLATION' and read in the section 'Connecting VCR without scart cable' the note 'Adjusting the modulator frequency', 'Automatic adjustment of modulator frequency' as well as the note 'Switching off the modulator'.
- Have your aerial checked.

Enter the serial number of your appliance here:

MODEL NO./TYPE **VR 686**

PROD.NO./SER.NR.

This product complies with the requirements of the Directive 73/23/EEC + 89/336/EEC + 93/68/EEC.

Interference

The Department of Trade and Industry operates a Radio Investigation Service to help TV licence holders improve reception of BBC and ITC programmes where these are being spoilt by interference.

If your dealer cannot help, ask at a Main Post Office for the booklet 'How to Improve Television and Radio Reception'.

Remote codes

UK

Acura	02	GoldStar	15, 20, 27	Proline	31
Adyson	20	Goodmans	07, 10, 20, 29, 36	Protech	02, 12, 20, 23, 25, 38
Akai	18, 33	Gorenje	35	Quelle	03, 04, 33
Akura	21, 25	Graetz	33	Questa	07
Alba	02, 07, 21	Granada	10, 18, 20	Rank Arena	07
Allorgan	28	Grandin	26	Rediffusion	33
Amplivision	20	Grundig	17	Rex	25
Amstrad	02	HCM	02, 26	Roadstar	02, 21, 25, 38
Anitech	02	Hanseatic	30, 33	SEG	07, 20, 25
Arcam	19, 20	Hinari	02, 07, 21	SEI	12, 28
Asuka	21	Hisawa	26, 40	Saba	15
Audiosonic	15	Hitachi	05, 07, 08, 13, 15, 20, 22	Saisho	02, 04, 25
BPL	26	Huanyu	19, 36	Salora	33
BSR	28	Hypson	25, 26	Sambers	12
BTC	21	ICE	20, 25	Samsung	01, 02, 20, 25, 27, 35
Basic Line	02, 21	ICeS	21	Sandra	19
Baur	03, 33	ITT	33	Sanyo	04, 07, 10, 18
Beko	35	Imperial	23, 35, 38	Schaub Lorenz	33
Binatone	20	Inno Hit	10	Schneider	21, 23, 37
Blaupunkt	17	Interfunk	23, 33	Sei-Sinudyne	03
Blue Sky	21	Intervision	12, 20, 25	Sentra	06
Blue Star	26	Isukai	21	Sharp	07, 11
Bondstec	23	JVC	07, 09	Shorai	28
Boots	20	Kaisui	02, 19, 20, 21, 26	Siarem	12
Brandt	15	Kathrein	01	Siemens	17
Britannia	19	Kingsley	19	Silver	07
Bush	02, 07, 21, 26, 28, 36, 42	Koyoda	02	Sinudyne	12, 28
CGE	23	Leyco	10, 25, 28	Solavox	05
CS Electronics	19	Lloytron	05	Sonitron	18
CTC	23	Luxor	33	Sonoko	02
Carrefour	07	M Electronic	02, 13, 15, 20, 32, 36, 41	Sonolor	18
Cascade	02	Magnadyne	12, 23	Sony	03, 04, 07
Cimline	02	Magnafon	12	Soundwave	38
Clatronic	23, 35	Manesth	20, 25, 30	Standard	02, 20, 21
Condor	30, 35	Marantz	01	Sunkai	28, 31
Contec	02, 07, 19	Matsui	02, 04, 06, 07, 10, 18, 20, 28, 39	Susumu	21
Crown	02, 35, 38	Memorex	02	Tandy	10, 20, 21
Cybertron	21	Metz	34	Tashiko	07, 20
Daewoo	02, 36	Mitsubishi	07, 14, 16	Tatung	10, 20
Dainichi	21	Mivar	19, 27	Tec	20, 23
Dayton	02	Multitech	02, 12, 19	Technema	30
De Graaf	18	Neckermann	01	Technics	24
Decca	10	Nikkai	05, 06, 10, 19, 21, 25	Telefunken	15
Dixi	02	Nobliko	12	Telemeister	30
Dual	42	Nokia	33, 41	Teletech	02
Dual Tec	20	Nordmende	15	Teleton	20
Elite	21, 30	Oceanic	33	Tensai	21, 28, 29, 30
Elta	02	Orion	28, 30, 31	Texet	19, 21
Emerson	33	Osaki	05, 10, 20, 21, 25	Thomson	15
Ferguson	15	Oso	21	Thorn	06, 10, 33
Fidelity	19, 33	Osume	05, 10	Tomashi	26
Finlandia	18, 32	Otake	29	Toshiba	06, 07
Finlux	10, 13, 32	Otto Versand	01, 03, 07, 20, 30	Uher	30
Firstline	02, 19, 20, 23, 28, 31	Palladium	35, 38	Ultravox	12
Fisher	18, 20, 35	Panama	20, 25	Universum	13, 25, 32, 35
Flint	40	Panasonic	24, 34	Videosat	23
Formenti	30	Pathe Cinema	19, 30	Videotechnic	20
Frontech	23, 25	Pausa	02	Visa	02
Fujitsu	10	Perdio	30	Vision	30
Funai	25, 28	Phase	05	Waltham	20
GEC	10, 20	Philco	23	Watson	30
GPM	21	Philips	01, 36	Watt Radio	12
Geloso	02	Pioneer	15	Wega	07
Genexxa	21	Profex	02, 33	White Westinghouse	19, 30
				Yoko	20, 25

VR 686

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